BRICHKIN, A.V., professor, doktor; ZEAKUPQV, G.Ye., kandidat tekhnicheskikh nauk.; GENBACH, A.N., inzhener; CHULAKOV, P.Ch., inzhener; SINDEYEV, P.R., inzhener;

Manually operated thermoborer with a single nozzle burner. Mekh.trud. rab. 11 no.1:15-16 Ja '57. (MLRA 10:5)

1.Chlen-korrespondent Adademii nauk KazSSR (for Brichkin)
(Boring machinery)

SINDEY-V, P.R., Cano fech soi — (diss) "Regime of thermie ly " Alma-Ata, and constructive elements of a gas jet." Alma-Ata, 1956, lh pp with sketches (Min of digmer Education USSR. Kazakh Pining Metallurgical Inst. Shair of Wining of Ore Deposits) 150 comies (KL, 50-56, 125-6)

- 81 -

ERICHKIN, A.V.; SINDEYEV. P.R.; GENBACH, A.N.

Effect of the thermal gas flow on the face of a borehole during thermal piercing. Trudy Alt. GMNII AN Kazakh. SSR no.7:82-101

(Boring) (Thermodynamics)

经经济的基础的**的现在分词**

158.

BRICHKIN, A.V., prof.; SIMDEYEV, P.R., inzh.

Distance between burner and borehole face and its influence on the rate of thermal piercing. Izv.vys.ucheb.zav.; gor.zhur. no.11:74-86 58. (MIRA 12:8)

1. Kazanskiy gornometallurgicheskiy institut, chlen-korrespondent AN KazSSR (for Brichkin). 2. Altayskiy institut AN KazSSR (for Sindeyev).

(Boring)

14(5)

scv/31-59-2-6/17

AUTHOR:

Sindeyev, P.R.

的形式是一种特殊的<mark>是是国际的人民国的,但是国际的人民国的</mark>的人,但是国际的人民国的,他们是国际的人民国的,他们对于他们的人们的人们的人们的人们的人们,这个人们们

TITLE:

Conditions for Thermal Drilling and Constructional Elements of the Torch (Rezhim termicheskogo bureniya

i konstruktivnyye elementy gorelki)

PE IODICAL:

Vestnik Akademii nauk Kazakhskoy SSR, 1959, Nr 2,

pp 50 - 63 (USSR)

ABSTRACT:

This article examines the optimum conditions for successful thermal drilling which does not only depend on the working conditions of the torch (temperature, speed of gas current, pressure in the combustion chamber), but also on the conditions of the drilling process itself. Correct drilling implies keeping the torch at an adequate moving speed for given conditions and types of rocks, maintaining the distance between the torch and the borehole face and the diameter of the borehole, which depends on the above-mentioned distance and drilling speed.

Card 1/3

The author's thermal drilling experiments carried

JCV/31-59-2-6/17

Conditions for Thermal Drilling and Constructional Clements of the Torch

out on rocks of the Kounradskiy rudnik (Kounradskiy Mine) have laid great stress on the distance of the torch end from the surface of the borehole face. It has been determined that a change of distance, under otherwise equal conditions, also change the drilling speed and the bore hole diameter. In other words, maintaining an optimum distance between face and torch is indispensable for intensive drilling. In the first section of the article, the author considers the functional dependence of the distance between torch and face. He concludes that bore hole diameter and distance between face and torch depend on the dynamic indices of the gas current and the design of the burner and nozzles. Experiments confirmed the theoretical considerations. A comparison between experimental and theoretical data showed only slight deviations. To establish the distance between face and torch and the bore hole diameter, therefore, the theoretical premises can be fully utilized. The author further deals with the influence of certain types of shock waves on rock demolition

Card 2/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550720018-2"

SeV/31-59-2-6/17

Conditions for Thermal Drilling and Constructional Elements of the

THE MAINTENANT SHOWN TO THE RESERVENCE AND THE PROPERTY OF THE

Torch

and with the form of the torch gas baffle. He summarizes his statements as follows: 1) Successful thermal drilling is only possible, if a supersonic high-temperature gas current capable of producing shock waves is applied; its angle of incidence at the bore hole face must be 90°, at least 75°.

2) The rotation angle of the peripheral nozzles shall not exceed 10-15°. 3) The burner must be equipped with a gas baffle, which is suitable in form and ensures a maximum life span for the torch.

4) The distance between the end of the torch and the bore hole face is of great practical importance for the intensity of drilling. 5) Maintaining the distance within optimum limits requires the development of a special automatic control device at an industrial thermal drilling plant. There are 10 figures, 6 tables and 11 references, 10 of which are Soviet and 1 English.

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550720018-2"

BRICFKIN, A.V.; SINDEYEV, F.R.; GENBACH, A.N.

Form of the gas screen of a jet device for thermal boring. Trudy
Alt. GMNII AN Kazakh. SSR 10:103-115 '61. (MIRA 14:9)

(Boring--Equipment and supplies)

SINDEYEV, P.R.; FEOFANOV, V.A.

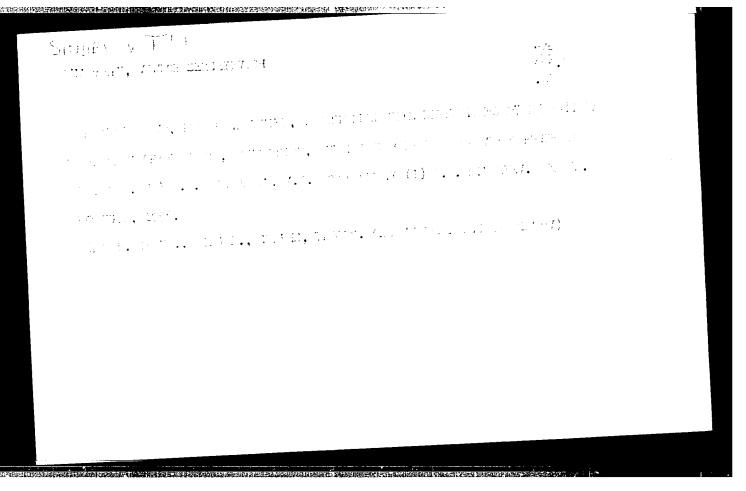
Automating jet piercing. Trudy Alt. GMMII AM Kazakh. SSR 15:115-122
(MIRA 17:3)

SINDEYEV, P.R.; SYUNDYUKOV, U.M.

Some characteristics of the designing of torches for manual jet

piercing. Trudy Alt. GMNII AN Kazakh. SSR 15:123-137 '63.

(MIRA 17:3)



LEVSHIN, Vladimir Arturovich; FILONENKO-BORODICH, M.M., doktor tekhn.nauk, prof., prof., retsenzent; VOSTROKNUTOV, S.P., doktor tekhn.nauk, prof., retsenzent; SINDEYEV, V.A., prof., retsenzent; SOKOLOV, V.I., doktor tekhn.nauk, prof., retsenzent; MINAYEVA, T.M., red.; SHAPENKOVA, T.A., tekhn.red.

[Strength of materials] Soprotivlenie materialov. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR, 1961. 475 p. (MIRA 14:6)

(Strength of materials)

GLUSHKOV, Georgiy Sergeyevich, doktor tekhn. nauk, prof.; BEZUKHOV, N.I., zasl. deyatel nauki i tekhniki RSFSR, doktor tekhn. nauk, prof., retsenzent; SINDEYEV. V.A., prof., red.; KOZLOV, A.P., red. izd-va; UVAROVA, A.F., tekhn. red.; DEMKINA. N.F., tekhn. red.

[Engineering methods for strength and rigidity analysis; with the use of moments of high orders]Inzhenernye metody raschetov na prochnost' i zhestkost'; s primeneniem momentov vysokikh poriadkov. Izd.2., perer. i dop. Moskva, Mashgiz, 1962. 354 p. (MTRA 15:9)

(Strength of materials)

GLUSHKOV, G.S.; SINDEYEV, V.A. [deceased]; BEZUKHOV, N.I., doktor tekhn. nauk; prof., zasl. devatel nauki i tekhniki RSFSR, retsenzent; KOFYLENKO, V.P., prof., nauchn. red.; FUFAYEVA, G.I., red.

[Course in the strength of materials] Kurs soprotivleniia naterialov. Moskva, Vysshaia shkola, 1965. 767 p. (MIKA 18:5)

定的表达与1900是新疆和斯斯。不**以前的逐步的影响和美国的**使于自由的地名的经济的影响的影响,但对于自由的影响,但在自由的影响,但是由于一

Fuerperal period in women with increased blood loss during labor. Sov. med. 25 no.4:48-52 Ap '62. (MIRA 15:6)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. K.M. Zhmakin) I Moskovskego ordena Lenina meditsinskogo instituta. (LABCR, CLMPLICATED)

(FUERPERIUM)

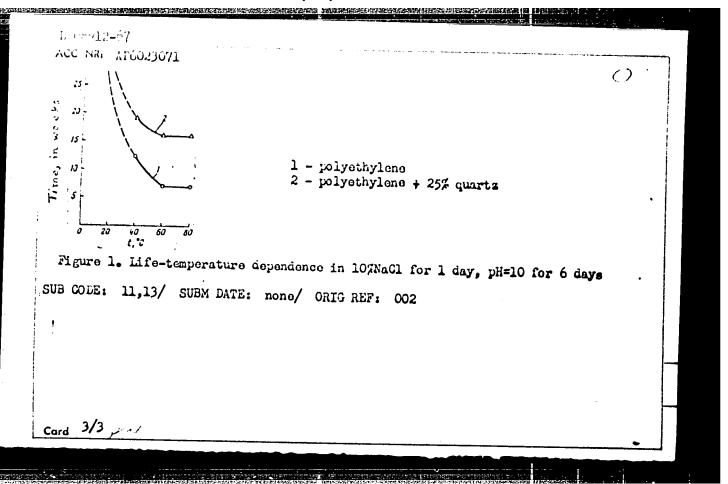
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. $L^{-\frac{1}{2}}(\Omega) = \frac{1}{2} - \frac{1}{2} \operatorname{Her}(n) / \operatorname{Her}(\beta) / \operatorname{He$ ACC NR. A16023071 TJP(e) JU/20/22 SOURCE CODE: UR/0191/66/G00/004/0063/G064 AUTHOR: Sindeyeva, L. G.; Ostrikov, M. S.; Droyzen, V. M. OnG: none TITLE: Anticorrosion properties of polyethelene coatings with mineral fillers SUMCE: Flasticheskiye massy, no. 4, 1966, 63-64 TOPIC TAGS: polyethylene, planting, coating, corrosion inhibitor, filler, quartz, ABSTRACT: The authors have investigated the effect of marshalite, quartz, feldspar,. diabase, talcum, and mica fillers used to improve the strength characteristics and rigidity of polyethylene coatings in corresive media under abrative conditions. Coatings of P-4004-T polyethylene with 0.94 g/cm3 density, 0.6 g/10 min. fusion index, 0.03% ash content, and 25 wt.% filler, 400-500µ thick, were sprayed on 60 mm long, 15 mm diameter cylindrical steel specimens. The specimens were tested in 10% NaCl, 2% H₂SO₁, and 4% NaOH solutions at 20, 40, 60, and 80C. The life of the coatings was determined by measuring the electrical resistance with the aid of a terachmueter MDM-4 (see Table). The corresive treatment was repeated every week. For 7 hr. the specimens were held at 80C, the rest of the time at room temperature. The life of coatings decreased as the temperature was increased. (Figure 1). An increase in the life of Cord 1/3 UDC: 678,742,2-416+678,046,36,019,34

THE REPORT OF THE PROPERTY OF

L 08912-67 ACC NR: AP6023071 Table 1. The effect of mineral fillers on the service life of polyethelene coatings Service life of coating, in weeks at 800 Filler no filler 2% H₂SO₄: 1 day pH=3: 6 days marshalite| quartz feldspar diabase talcum 8 Mica 21 10% NaCl: 1 day 20 4 7 3 pH=10: 6 days 3 7 21 4% NaOH: 1 day 20 8 21 12 PH=3: 3 days 3 6 9 pH=10: 3 days 9 7 8 5. 9

coatings can be attributed to the stress-relieving effect of the fillers. Filler-reinforced coatings, however, undergo spot corrosion due to hydrophobic and hydrophilic
differences in the polyethylene and the filler. Hence, studies are being conducted as
of polyethylene coatings. Orig. art. has: 3 fig. and 1 table.

Card 2/3



SINDBYEVA, N.D.

Geochemical indication of the presence of pyrite deposite. Dekl. AN SSSR 104 no.1:114 S '55. (NIRA 9:2)

1.Laberateriya mineralegii i geekhimii redkikh elementev Akademii nauk SSSR.Predstavleno akademikem D.I.Shcherbakevym.
(Pyrites)

中的大学中的工作,其实现象,我们可以不是是是一种的工作。这个是一种的工作,这个是一种的工作,但是是一种的工作,但是一种的工作,但是是一种的工作,但是是一种的工作,

SINDEYEVA, N.D.

Materials on the geochemistry of selenium. Trudy Inst. min., geokhim. i kristallokhim. red. elem. no.1:7-13 *57. (MIRA 11:6) (Selenium)

sindereva, Nina Dmitriyevna (Institute of Mineralogy, Geothemistry, and Crystal Chemistry of Rare Elements Acad. Sci. USSR) for Doc of Geological and Mineralogical Sciences on the basis of dissertation defended 10 Dec 58 in Council of the Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geothemistry Acad. Sci. USSR, entitled: "Mineralogy, Types of Deposits, Principal Cuttines of the Geothemistry of Selenium and Tellurium." (HMVisso USSR, 2-51, 31)

410

BENEFITARE PARTICULAR STATEMENT OF STATEMENT

AUTHOR:

Sindeyeva, N.D.

11-58-5-7/16

TITLE:

Selenium and Tellurium in Deposits of Different Genetic Types (Selen i tellur v mestorozhdeniyakh razlichnykh ge-

neticheskikh tipov)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958,

Nr 5, pp 78-94 (USSR)

ABSTRACT:

One of the main geochemical peculiarities of selenium and tellurium is their duality, which places these elements on the boundary line of normal and scattered elements. A large part of the atoms of selenium are scattered in the deposits of sulfur, because of the similarity of their chemical properties. Other parts of these atoms form independent minerals, especially atoms of tellurium, because of their dissimilarity to sulphur, Both these elements are extracted mainly from copper and pyritic deposits in quantities sufficient for industrial needs. The author describes and classifies genetic types of deposits containing these elements. Minerals which include selenium and tellurium were formed in all stages of ore-forming processes from the magmatic to the exogenous stages. On pages 80 -81, the author presents a detailed table of the classification

Card 1/3

11-58-5-7/16

Selenium and Tellurium in Deposits of Different Genetic Types

of all known deposits of these elements in the world. She divides them in three main groups: Magmatic deposits; Volcanogenous deposits; Hydrothermal deposits and Exogenous deposits. The largest reserves of selenium are liquation type of magmatic deposits. associated with the The largest reserves of tellurium, together with selenium, are connected with the post-magmatic, mainly pyritic and cupri-molybdic, deposits. Many other post-magmatic deposits also include selenium and tellurium, and therefore can be used for the extraction of these elements. In the sulfide deposits, the chalcopyrites have the highest content of selenium, which is also found in pyrites and molybdenites. In lead and zinc deposits, the tellurium is found mainly in the galenites. The largest part of the deposits containing the two elements is connected with acid or semiacid granitoids, but the largest deposits are usually connected with the basic intrusives. There is 1 table and 11 references, 3 of which are Soviet, 4 American, 3 German and 1 Belgian.

Card 2/3

AND THE PROPERTY OF THE PROPER

11-58-5-7/16

Selenium and Tellurium in Deposits of Different Genetic Types

ASCOCIATION: Institut mineralogii, geokhimii i kristallografii redkikh elementov AN SSSR, Moscow (Institute of Mineralogy, Geochemistry and of Crystallography of Rare Elements,

Moscow)

SUBMITTED: 2 January 1958 .

AVAILABLE: Library of Congress

Card 3/3 1. Ore-Deposits 2. Tellurium 3. Selenium

AUTHORS: Sindeyeva, N. D., Kurbanova, N. Z. 307/20-120-2-36/63

TITLE: On the Clarks of Selenium in Some Rocks of the USSR (O klarke

selena v nekotorykh gornykh porodakh SSSR)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 2,

pp. 353 - 355 (USER)

ABSTRACT: There are no works specially devoted to the distribution of

sclenium in the rocks of the earth's crust. The data of different authors for the sclenium clark are given in table 1. They may be subdivided into 2 groups: 1) Quantities obtained by the analysis of concrete natural objects; 2) Quantities obtained by the comparison of actual data with data of earlier investigations,

or mere mathematical computations. In 1955-1957 the authors performed a work with the aim to determine the distribution of selenium in different types of rock in the USSR. The average values obtained in this connection (table 2) for the time being do not yet permit any statement that the clark-contents in

rocks of different basicity are highly different from each other. At the same time a certain accumulation of selenium in certain regions, e.g. the region of Magadan, becomes evident. From the

Card 1/2 analyses of table 2 the conclusions may be drawn that selenium

On the Clarks of Selenium in Some Rocks of the USSR 501/20-120-2-36/63

is contained in acid, basic and alkaline rocks in larger amounts than was reported in earlier investigations (References 1,13). The authors' analyses yielded 1,5.10-5%, on the average

 \sim 1,4.10 $^{-5}\%$. At the end data on the distribution of selenium in the world (References 9,11,12) are given. In the P-ibaltika 3 schist samples showed contents of from 3.10-5 to 5.10-4% (table 2). All these data are not yet sufficient for drawing conclusions on the selenium contents in sedimentary rocks of the USSR. There are 3 tables and 13 references, 6 of which are Soviet.

ASSOCIATION:

Institut mineralogii, geokhimii i kristallokhimii redkikh elementov Akademii nauk SSSR (Institute for Mineralogy, Geoche-

PRESENTED:

mistry and Crystal Chemistry of Rare Elements, AS USSR) March 3, 1958, by D. I. Shcherbakov, Member, Academy of

Sciences, USSR

SUBMITTED:

February 26, 1958

1. Selentim-Determination 2. Nock-droperties 3. Rock-dnalysis

Card 2/2

SINDEYEVA, Nina Dmitriyevna; BEUS, A.A., doktor geol.-mineral.nauk, otv.red.; SIMKIN, S.M., red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Minerelogy, types of deposits, and basic geochemical characteristics of selenium and tellurium] Minerelogiia, tipy mestorozhdenii i osnovnye cherty geokhimii selena i tellura. Moskva, Izd-vo Akad.nauk SSSR, 1959. 254 p. (MIRA 13:2) (Selenium) (Tellurium)

CIA-RDP86-00513R001550720018-2 "APPROVED FOR RELEASE: 08/23/2000

3(5,8),5(2,4)

AUTHORS: Sindeyeva, N. D., Gadovikov, A. A. SOV/20-127-2-55/70

等性的主义。全国所有限制的主义和18日内的国际国际和国际国际和国际的经验的主义的国际的主义。但是国际的国际国际的发现(1954年),1954年1954年的国际国际国际国际国际国际国际国际国际国际国际国际国际国际国际国际国际

CIA-RDP86-00513R001550720018-2"

TITLE:

On the Isomorphism Between Sulphur and Tellurium in Galenite

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2, pp431-434

(USSR)

APPROVED FOR RELEASE: 08/23/2000

ABSTRACT:

S, Se and Te are in the VIth group of the periodic system of elements and are chemical analogs. In nature they are connected by monotypical hypergenic processes and occur in the same deposits. They are arranged in an isomorphous series in geochemical papers (Refs 1,2,4). The isomorphism of S and Se is undoubted, that of S and Te, is, however, unclear. The

possibility of an isomorphous substitution of the elements is known to be to a considerable extent caused by the size of the ionic-, atomic-, or covalent radii. The sulphides are to a

considerable extent covalent compounds. Selenides and tellurides

to a still greater extent. The authors wanted to examine experimentally the boundaries of the isomorphous substitutions between S and Te. For this purpose PbS (galenite) and PbTe

(altaite) were chosen as compounds of one and the same structural type (NaCl) which have also the same type of

Card 1/3

On the Isomorphism Between Sulphur and Tellurium in Galenite

sov/20-127-2-55/70

chemical bond and further analogies. They were produced pyrosynthetically from elements (in stoichiometric quantities). Table 1 shows the lattice parameters and the microhardness in the series of these compounds. The tellurium quantity which penetrated into the galenite lattice was considerably shortened with the reduction of the altaite concentration to 5% (the parameters were much less changed). The parameters were not changed at an altaite content of 2 and 0.25%. This proves the limitedness of the S- and Te-isomorphism. Considerable excess concentrations of Te are necessary for its occurrence. A solid solution is produced here since the microhardness increases with rising content of PbTe in the sample. By a galenite synthesis in the presence of a considerable tellurium excess a mixture was produced consisting on the whole of galenite and tellurium (Fig 4); it had a characteristic structure. The galenite parameter was, however, not changed.

Card 2/3

On the Isomorphism Between Sulphur and Tellurium in Galenite

SOV/20-127-2-55/70

The formation of a small altaite quantity in the mixture which cannot be determined by the phase analysis may be caused by an inconsiderable sulphur loss in the opening of the soldered experimental ampule. It could not be proved that selenium plays the role of a mediator when tellurium penetrates into the galenite lattice. There are 4 figures, 3 tables, and 5 references, 4 of which are Seviet.

ASSOCIATION:

Institut mineralogii, geckhimii i kristallokhimii redkikh elementov (Institute of Mineralogy, Geochemistry, and Crystal Chemistry of the Rare Elements)

PRESENTED:

January 26, 1959, by N. V. Belov, Academician

SUBMITTED:

November 14, 1958

Card 3/3

到。这种的一种的一种的一种,我们就是一种的一种,我们就是一种的一种的一种的一种,我们就是一种的一种的一种,我们就是一种的一种的一种的一种的一种的一种的一种的一种

D'YACHKOVA, I.B.; SINDEYEVA, N.D., otv. red.; SHILLER, V.A., otv. za vypusk.

[Isomorphism of minerals in the system Bi₂S₃- Bi₂Se₃] Ob izomorfizme mineralov v sisteme Bi₂S₃- Bi₂Se₃. Moskva, 1960. 10 p. (Akademiia nauk SSSR. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov. Mineralogiia, no.5) (MIRA 15:6) (Isomorphism)

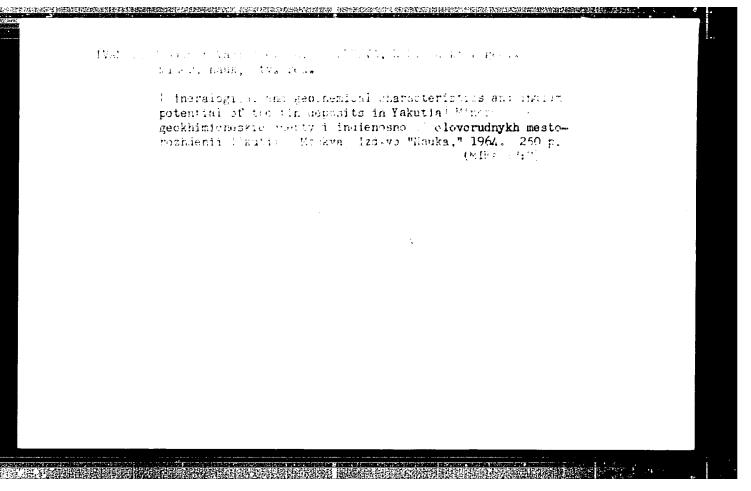
SINDEYEVA, N. D.

"Some features of the geochemistry of selenium and tellurium"

Paper submitted at the International Geological Congress XXI Session - 1960 (Reports of Soviet Geologists) Problem No. 1, 15-24 Aug. 61

SINDEYEVA, N.D.; KULIKOVA, M.F.

Rare elements in the oxidation zone of sulfide deposits.
Trudy IMGRE no.10:268-290 '63. (MIRA 17:5)



[Geochemistry and mineralogy of selenium and tellurium in capper-nickel deposits] Geokhiniia i mineralogiia selena i tallura v medno-nikelevykh mesterozhdeniiakh. Moskva, Izdvo "Nauka," 1964. 110 p. (MIRA 17:6)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550720018-2"

YANOV, A.P., SINDEYEVA, N.F.

Formation of poison gases and dust during blasting operations in underground workings. Sbor.nauch.trud.Kirv.fil.'GD AN URSR no.1:31-38 '62. (MIRA 16:4) (Mine gases) (Blasting)

即是现在这种是这种的大型的现在分词,但是可以是有关的人类的人类的,但是不是一个人,但是不是一个人,但是不是一个人,也是不是一个人,也是一个人,也是一个人,也是一

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001550720018-2"

SINDIC, Miodrag; JANCIC, Marija S.

Phlegmonous gastritis. Srpski arh. celok. lek. 89 no.4:485-489 Ap '61.

1. Patolosko-anatomski institut Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Zivojin Ignjacev. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Branislav Stanojevic.

(GASTRITIS)

DURIC, Dusan S.; MICIC, Jovan V.; SINDIC, Miodrag; STEPANOVIC, Dragomir

A case of subscute bacterial endocarditis simulating acute bacterial endocarditis. Srpski arh. celok. iek. 89 no.5:623-628 My 161.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Branislav Stanojevic. Institut za patolosku anatomiju Med. fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Zivojin Ignjacev.

(ENDOCARDITIS SUBACUTE BACTERIAL aiag)

BOZINOVIC, Ljubica; SINDIC, Miodrag; MORIC-PETROVIC, Slavka

Tetralogy of Fallot with residual endowasculitie and endowardities in a case of mongolism. Srpski ark. celok. lek. 91 no.5:511-516 My 163.

Reogradu Upravnik: prof. dr Radivoje Berovic Patolosko-anatomski institut Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Zivojin Ignjacev Neuropsihijatrijska klinika Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Uros Jekic.

(MONGOLISM) (TETRALOGY OF FALLOT)

(ENDOCARDITIS) (PULMONARY EMBOLISM)

SINDIC, Miodrag; BABIC, Dusan

Isolated metastases of breast cancer to the thyroid gland. Srpski arh. celok. lek. 89 no.11:1353-1356 N '61.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Branislav Stanojevic Patolosko-anatomski institut Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Zivojin Ignjacev.

(BREAST NEOPLASMS compl) (ADRENAL GLAND neopl)

5

SINDIJA, Ivan, ing. (Zagreb)

Theoretical fundamentals and the application of turbo-drills in the U.S.S.R. Nafta Jug 12 no.10:268-279 0 '61.

1. Poslovno udruzenje "Nafta", Zagreb.

SINDIJA, Ivan, inz.

Theoretical foundations and application of turbodrills in the U.S.S.R. Application of turbodrill in the Tuymazy region, Bashkir Autonomous S. S. R. Mafta Jug 12 no.11/12:310-320 N-D '61.

1. Poslovno udruzenje "Nafta," Zagreb.

在交易的主义是我们的影影和外别的神经的,这是不是我们的影影的影影的影响的一个,这个人的意思,这个人的意思,这个人的一个人的一个人的一个人的人的人们的一个人们的人

Trevention and control of diphtheria. Higijena, Beogr. 9 no.1:81-85 1957.

Central Institute of dygiene, Zagreb.
(DIPHTERALA, prev. & control
(Ser))

MUNIMAGIC, Abdulah, inz.; SIEDIK, Anton, inz.

Meeting of the Fermanent Corrittee of the International Federation of Geometers, and Symposium on Geodesy in Engineering, Sofia, August 22-29, 1964. Geod list 18 no.10/12:285-295 0-D 164.

SINDIK, I

SINDIK, I.

Yugoslavia (430)

General - Serials

The legislation of Stefan Dusam in Grbalj and Pastrovici. p. 349. Srpska akademija nauka. GLASNIK. Beograd. (Quarterly bulletin containing abstracts of transactions and proceedings of the Serbian Academy of Sciences). Vol. 1, no. 3, 1949.

East European Accessions List. Library of Congress, Vol 1, no 13, November 1952. UNCLASSIFIED

SINDIJA, Ivan, inz.

Boring oil gas wells with electric boring machines in the U.S.S.R. Nafta Jug 13 no.4/5:92-99 Ap-My 62.

。 (1965年)在1965年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1966年,1

1. Poslovno udruzenje "Nafta", Zagreb.

Come enservations on the role of climati factors in estimate patients. Remailizan 12 no.1016-18 165

1. Beining ze elergijske belesti organa zu diemije, lubrowni.

AVRUKH, M.L., red.; VASILIYEV, A.M., red.; SAYENKO, G.I., red.; SINDILEVICH, L.M., red.

[Reading machines; papers presented at the conference on the processing of information, machine translation, and automatic reading] Chitaiushchie ustroistva; sbornik dokladov na Konferentsii po obrabotke informatsii, mashinnomu perevodu i avtomaticheskomu chteniiu teksta. Moskva, 1962. 186 p. (MIRA 15:6)

1. Akademiya nauk SSSR. Institut nauchnoy informatsii. (Reading machines)

•					UN NRI APOUU1410	ACCESSIUN NRI
	1	Kuznetsov, V. I.;	nova. I. A.	. N. I.: Visso	ON NR: AP5007475 Bekin, B. 8.; Gryaznov	ATEMIONO DAL
	90	• • •		L. P.	wich, L. M., Shohegolev.	Sindilevich,
•	B.	. 168535	91aca 42, M	mory device.	Semiconstant ourselty me	TITLE: Semio
•	•	1965, 87	akov, no. 4	i tovarnykh sn	Byulleten' isobretemiy	Source: Byul
i	•			ge device	MAGS: punched card, store	TOPIC TAGS:
	rm of the holes i	h tenks in the form y (see Fig. 1 on the	a plate with	ce consists of iquid or solid	Tr: This Author Certification of cards. To increase the rd punched cards, the devise filled with conducting ture). Pins coated with a name cards carrying informatt, has: 1 diagram.	punched cards standard punc grooves fille Enclosure). the nunched
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	rm of the holes i	h tenks in the form y (see Fig. 1 on the	a plate with	ce consists of iquid or solid	i cards. To increase the rd punched cards, the devise filled with conducting are). Pins coated with enched cards carrying info	punched cards standard punc grooves fille Enclosure). the nunched

是是一种的自己的自己的对象。 第一种的自己的自己的对象,是是是一种的自己的表现的是是一种的自己的自己的的,但是是一种的自己的的自己的,但是是一种的自己的自己的,但是是一种的自己的是是是一种的自己的

SINDILEVICH, L.M.

Second All-Union Conference on Automatic Processing of Information. NTI no.8:8-9 '63. (MIRA 16:10)

1. Uchenyy sekretar' Otdela mekhanizatsii i avtomatizatsii informatsionnykh rabot Vsesoyuznogo instituta nauchnoy i tekhnicheskoy informatsii Gosudarstvennogo komiteta Soveta Ministrov SSSR po koordinatsii nauchno-issledovatel'skikh rabot i AN SSSR.

BIRMAN, N.Ya.; SINDILEVICH, L.M.

Determining weight coefficients in the correlation method of written character recognition. NTI no.1:23-24 164. (MIRA 17:3)

KISELEV, A.K.: SINDIN, I.K.

Lower Devonian deposits in the southwestern part of the kalba Range. Dokl. AN SSSR 141 no.6:1435-1437 D '61. (MIRA 14:12)

1. Yuzhno-Kazakhstanskoye geologicheskoye upravleniye. Predstavleno akademikom D.V.Nalivkinym.

(Kalba Range--Geology, Stratigraphic)

OF PARTICULAR DESCRIPTION AND DESCRIPTION OF THE PARTICULAR DESCRI

137-58-4-7000

Translation from: Referativnyy zhurnal, Metallurgiya, 1958 Nr 4 p 100 (USSR)

Sindin, V.G. AUTHOR:

Experiences in the Operation of the Section Mills of the Magni-TITLE:

torgorsk Metallurgical Kombinat (Opyt raboty sortovykh stanov

Magnitogorskogo metallurgicheskogo kombinata)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii 1956, Vcl 10

pp 403-409

A steady increase in the production of sections is assured on ABSTRACT:

the existing equipment by more complete utilization of the resources present for increasing output. Thanks to measures taken to re-equip the mills (replacement of motors, reconstruction () the tables), the rolling speed was increased to 9 m/sec. A major role is played by a strictly calculated reduction procedure assuring proper gripping of the metal by the rolls in each pass. An increase in the range of cross sections of the billets also provides a considerable reserve for increasing output. Bloomings have to be of great power in order to do this. Introduction of more modern fittings and a unified rolling procedure has reduced down-time at

the mills. Re-equipment of leveling and shearing devices has Card 1/2

137-58-4-7006

Experiences in the Operation of the Section Mills (cont.)

also raised output. In connection with the increase in the output of rolling mills, a number of measures have been taken to speed the heating of billets in holding furnaces—a fuel of higher heat value is used and heat losses have been reduced. Down-time has been diminished by increasing the warehousing of finished products, by perfecting the method of roll replacement, and by introducing a number of measures to improve methods of repair and servicing. Supplement to RzhMet, 1957, Nr 7, 22805.

V.O.

1. Rolling mills--Operation 2 Rolling mills--Production

Card 2/2

SINDINA. L. YU.

28002. SINDINA. L. YU. -- Lecheniye ognestrel'nykh osteomielitov po dsi nym frunzenskogo respublikanskogo gospitalya invalidov otechestvennoy voyny. Trudy pervoy nauch. Mezhresp. Konf-tsii po lecheniyu invalidov otechestv. voyny v sred. Azii. Tashkent, 1949, S. 125-28.

SO: Letopis' Zhurnal'nykh Strtey. Vol. 37, 1949.

Shidhia, M.u.

Artifictol Hillians i.e to compose to Alma-Ata. Ziray. Kaledo.
21 no.10;6e-77 les. (MRA 17:5)

1. 12 kafedry comboney gighteny (zava-prof. 1.3. foryakin)
Kazakhakego wediteinakego instituta.

会是在我们的时间的时间,我们就是我们的时间,我们的时间,我们的时间,我们就是我们的时间,我们就是我们的人,我们就是我们的人,我们就是我们的一个人,我们就是不是

SINDINA, N.G.

Hygienic evaluation of the schedule for schoolchildren in Alma-Eta. Zdrav. Kazakh. 23 no.4:67-70 '63. (MIRA 17:5)

1. In Mafelry obshrhey gigiyeny (zaveduyushoniy - prof. i.S. Koryakia) Alma-atinskogo meditsinskogo instituta.

Hygienic characteristics of consolidated preschool children's institutions in Alma-Ata. Zdrav. Kazakh. 21 no.1:76-77 '61.

(MIRA 14:3)

1. Iz kafedry obshchey gigiyeny (zav. - professor I.S.Koryakin)

Kazakhskogo meditsinskogo instituta.

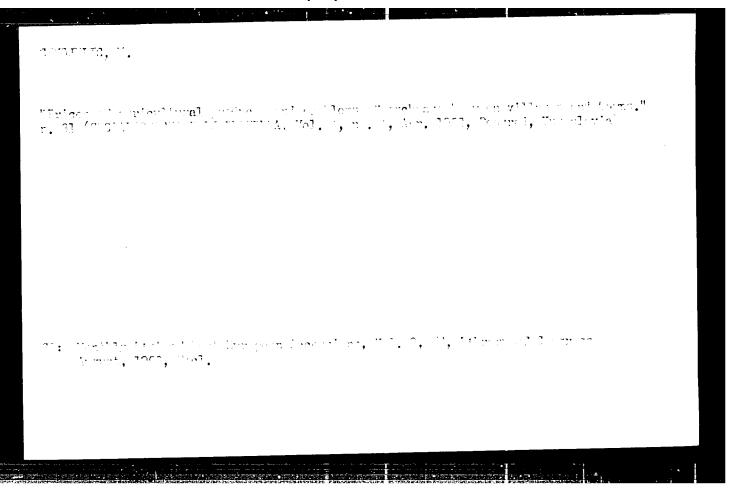
(ALMA ATA—NURSERIES—SANITARY AFFAIRS)

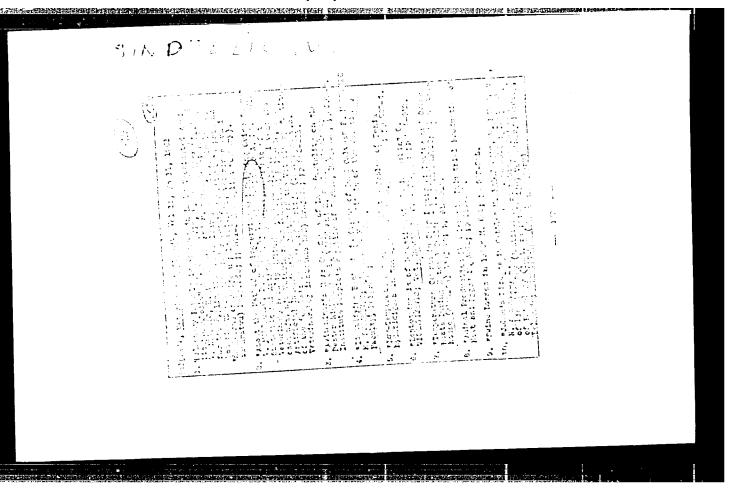
SINDINA, N.G.

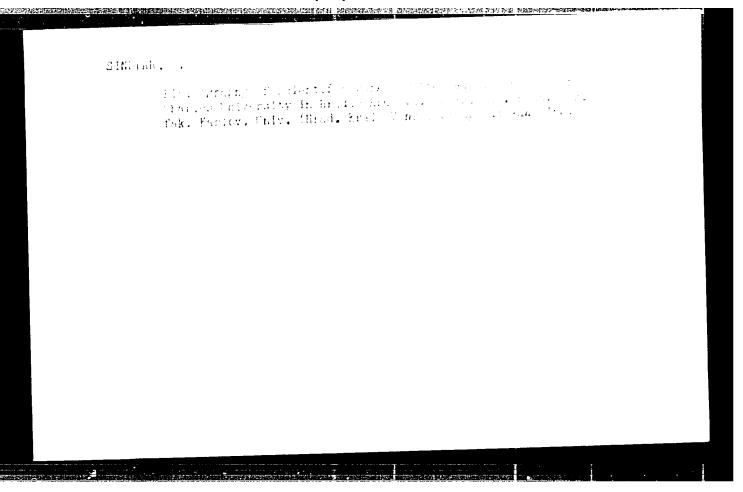
Condition of the natural illumination of school buildings in Alma-Ata. Zdrav. Kazakh. 21 no.10:59-61 '61. (MIKA 15:2)

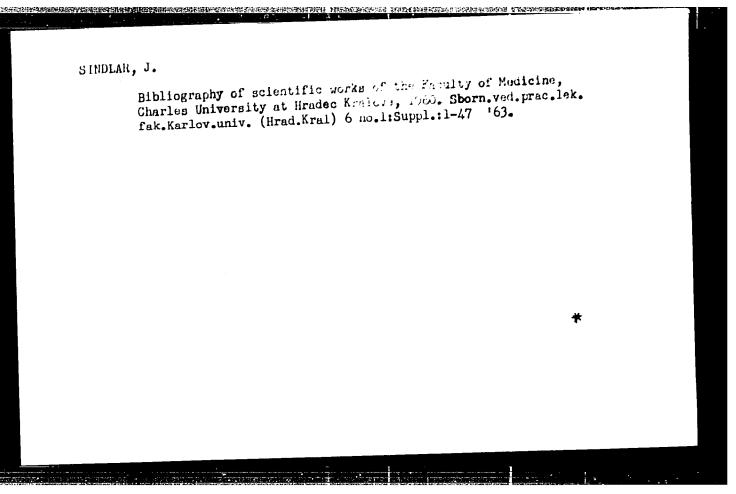
1. Iz kafedry obshchey gigiyeny (zav. - prof. I.S.Koryakin) Kazakhskogo meditsinskogo instituta. (ALFIA_ATA__SCHOOL HYGIENA)

BENEFIT THE PROPERTY OF THE PR









SINDLAR, S., inz.

Approximate determination of stress conditions in toroidal shells. Strojirenstvi 12 no.9:643-650 S '62.

1. Statni vyzkumny ustav tepelne techniky, Praha.

SINDLAR, S., inz. CSc.

Approximate solution of the stress in transitional parts of pressure vessels. Strojirenstvi 14 no. 3: 169-176 Mr 164.

THE CONTROL OF THE CO

1. State Research Institute of Heat Technology, Prague.

ACCESSION NR: AP4010168

z/0041/64/000/001/0003/0019

AUTHOR: Similar, Swatopluk (Engineer)

TITLE: A torus-shaped shell with a negative Gaussian curvature

SOURCE: Strojnicky casopis, no. 1, 1964, 3-19

TOPIC TAGS: shell, shell theory, shell analysis, torus-shaped shell, negative

Gaussian curvature shell

ABSTRACT: A solution to the differential equation, which is obtained by solving the state of stress in a torus-shaped shell having a negative Gaussian curvature,

is given. The equation has the finel form

$$q_1(a) = c_0 \varphi_1(a) + d_0 \varphi_2(a).$$
 (1)

Apere

$$\phi_1(\alpha) = (\lambda - \cos \alpha) \frac{1}{c_0} \sum_{n=0}^{n=N} c_n (1 - \cos \alpha)^n,$$

$$\phi_2(\alpha) = (\lambda - \cos \alpha) \sqrt{1 - \cos \alpha} \frac{1}{d_0} \sum_{n=0}^{n=N} c_n (1 - \cos \alpha)^n.$$

Card 1/3

ACCESSION NR: AP4010168

The Kuratov method (P.S. Kuratov. "Napryozhennoye sostoyanie toroidal'nogo sopryazheniya" (Stressed state of torroidal coupling), Prochnost' elementov parturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbin (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements), Mashgiz, Moscow, 1951) for a torusturbine elements (Strength of steam turbine elements),

$$\eta_{1}(a) = (\lambda - \cos a) \left\{ \sum_{n} c_{n} v_{1}^{n} + \sqrt{v_{1}} \sum_{n} d_{n} v_{1}^{n} + \frac{\sqrt{2v_{1}}C}{c_{n} d_{n}(\lambda - 1)^{3}} \left[\sum_{n} c_{n} v_{1}^{n} \cdot \sum_{n} \frac{d_{n}}{n + 1, 5} v_{1}^{n+1} - \sum_{n} d_{n} v_{1}^{n} \cdot \sum_{n} \frac{c_{n}}{n + 1} v_{1}^{n+1} \right] \right\}, \quad (2)$$

where

$$v_1 = 1 - \cos \alpha$$
 $a \quad C = -\frac{\lambda}{2} \left[1 + \left(\lambda^2 - \frac{\overline{r_0}^2}{a^2} \right) (1 + 2i\tau^2) \right].$

224

$$-\sum_{i}\frac{c_{\alpha}}{n+1}v_{i}^{i+1}\left(\sum_{i}nd_{\alpha}v_{i}^{i}+\frac{1}{2}\sum_{i}d_{\alpha}v_{i}^{i}\right)\right].$$

Card 2/3

ACCESSION NR: AP4010168

in which the angle ∞ is substituted by the angle $-\infty$. Then

The infinite power series in equations (2) and (3) converge very rapidly for small angles of of. This convergence is the faster when the persecter (small Lambda) is the larger and the ratio of (small Delta) the smaller. Orig. art. has: 2 figures and 87 equations.

ASSOCIATION: Statni vyskumny ustev tepelne techniky, Prague (State Research

Institute for Heat Engineering)

SUBMITTED: 05Jun62

DATE ACQ: 10Feb64 NO REF SOV: 005 ENCL: 00 OTHER: 015

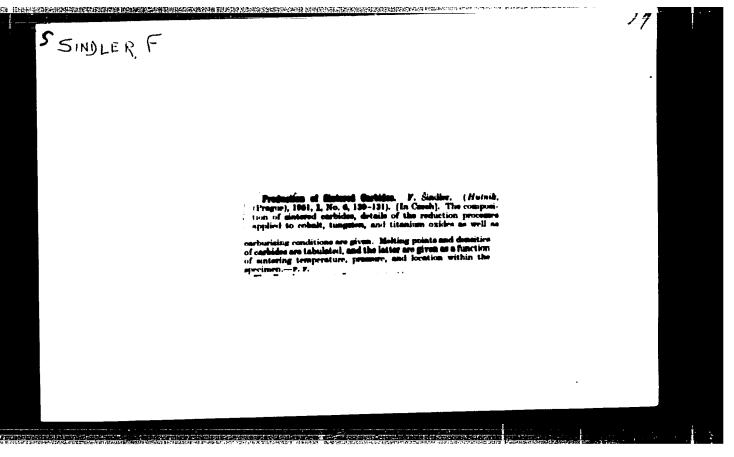
Card 3/3

SUB CODE: AS

KIEPAL, Vaclav; SINDLER, Erich

Automatic production of gearings. Stroj vyr 11 no.5:233-236 My '63.

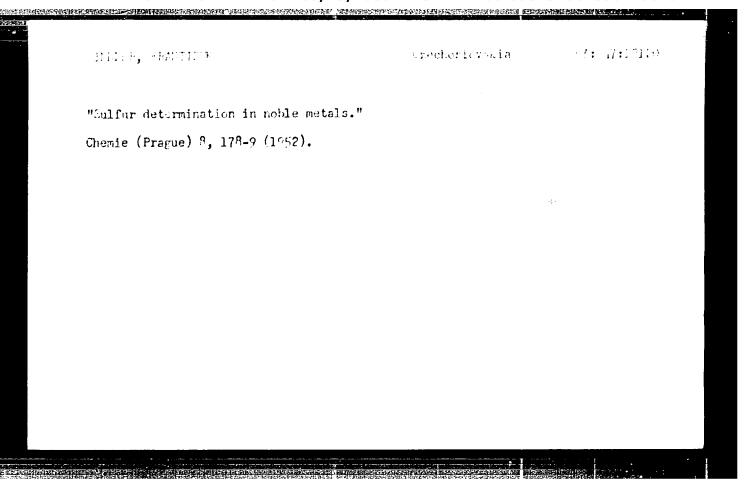
1. Tovarny na obrabeci stroje Celakovice, n.p., Celakovice.

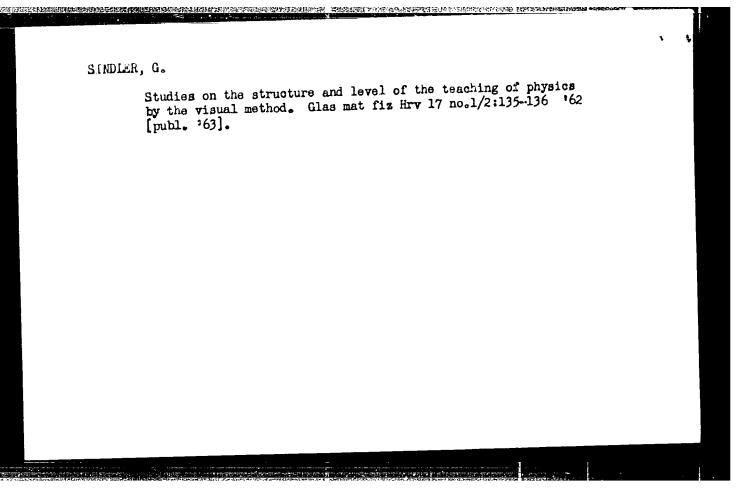


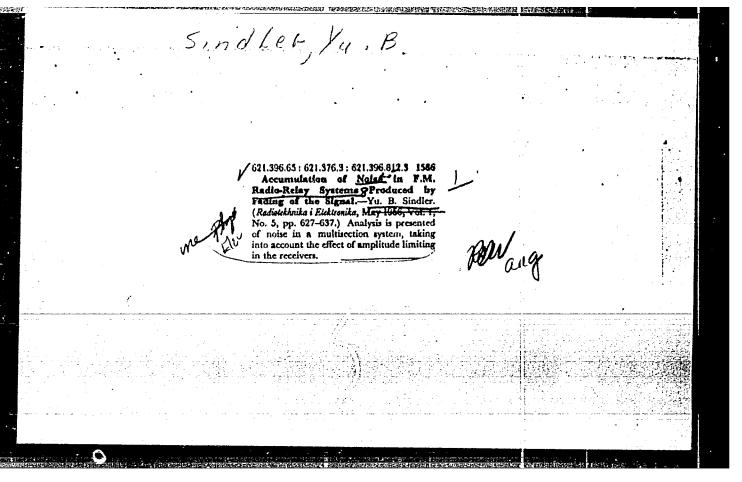
Similar, F.

"Industrial production of pure hydrogen and nitrogen." p. 190. (Chemie. Vol. 7, no. 10, Oct. 1951. Praha.)

So: Monthly List of Past European Accessions, Vol. 3, no. 6, Library of Congress, June 1954. Uncl.







CIA-RDP86-00513R001550720018-2 "APPROVED FOR RELEASE: 08/23/2000 。 《大学》,

Survey Yu. B 108-11-3/10 Nemirovskiy, A. S. Sindler, Yu. B., On the Fading-Correlation in Adjoining Sections of the AUTHORS:

Radio-Relay-Lines (O korrelyatsii zamiraniy na sosednikh uchastkakh radioreleynykh liniy svyazi). TITLE:

Radiotekhnika, 1957, Vol. 12, Nr 11, pp. 21-28 (USSR)

PERIODICAL: In this place those factors are analysed which influence the probability of a deficiency of the radio-relay-lines effected by the fading. The intensity of the background ABSTRACT: noise at the line output is looked upon as chance quantity and for it the rule of the probability-distribution is assessed. In the first place the case where the threshold of the distinctness of speech is surpassed, is examined. This threshold complies with the case where the signal strength surpasses the intensity of the background noise by approximately 10 db. Two cases of deficiency of a line can

be distinguished: b- all section are intact, but the backgrouni noise caught

Card 1/3

On the Fading-Correlation in Adjoining Sections of the Radio- 108-11-3/10 Relay-Lines.

by the line surpasses the threshold of the distinctness of speech. It is demonstrated that, as a rule, in too long lines at the fading the background noise produced by one section surpasses substantially that noise assembled in other tracts. This means that, the stronger the frequency-modulationimprovement-threshold is pronounced, for as much longer lines this thesis can be applied. It is shown that in this case the static analysis of the line breakdown results from the static analysis of breakdowns of line sections. If the sections are more or less identical, the diagram of a simple circuit by Markov can be used. As in practice the circuit is heterogenous, it is useful to carry out the outfit for some section-pairs. Such an outfit was carried out for the radio-relay-line Moscow - Gor'kiy in 1954 and 1955. In this place the results of these investigations are reported. It is shown that the use of the diagram of the simple circuit by Markov gives the first result of a rough approach under consideration of the fading correlation in the adjoining sections. The real error, nevertheless, which occurs at the use of the simple circuit is less than the error which results from the computation. There are 3

Card 2/3

On the Fading-Correlation in Adjoining Sections of the 108-11-3/10 Radio-Relay-Lines.

figures, 2 tables, and 5 references, 5 of which are Slavic.

SUBMITTED: April 22, 1957.

AVAILABLE: Library of Congress

Card 3/3

CIA-RDP86-00513R001550720018-2 "APPROVED FOR RELEASE: 08/23/2000

SINDIER, KB

AUTHORS:

TITLE:

20-6-17/42 Siforov, V. I., Corresponding Member AN USSR,

Equivalence of the Statistic Pro-Sindler, Yu. B., perties of Radioengineering Systems With a Great Number of Random Parameters (Ob usloviyakh ekvivalentnosti statisticheskikh svoystv radiotekhnicheskikh sistem s bol'shim chis-

lom sluchaynykh parametrov)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 116, Nr 6, pp. 956-958 (USSR)

ABSTRACT:

From the analysis of the mode of operation of some radioengineering systems (reference 1, 2, 3) results the problem of comparison of the distribution law of probabilities of the sum of the accidentally indipendent values x_1, x_2, \dots, x_n with the distribution law of the maximum (in the sense of a random realization) value. Such a problem arises e. g. with the radiorelay-lines with the analysis of the influence of limiters on the law of distribution of the noisepower in the telephone canal. Also with the radiolocation such a problem arises (reference 3). The solution of such problems facilitates the correct construction of radioengineering systems. If the distribution laws of the values x1,x2,...,xn are similar to each other, then the distribution law of the sum of the random sizes in the range of their greatest values at the satisfaction of some additional conditions is practically equal to the

card 1/2

20-6-17/42

Conditions of Equivalence of the Statistic Properties of Radioengineering Systems With a Great Number of Random Parameters.

distribution law of the greatest of these values. Radioengineering systems the main indices of which are determined by the maximum value and their sum, are equivalent. Moreover, the similarity of these distribution laws can be applied
for practical evaluations of the distribution law of the sum,
because the distribution law of the maximum value can be determined elementarily. A corresponding theorem is given and proved.
There are 4 references, 3 of which are Slavic.

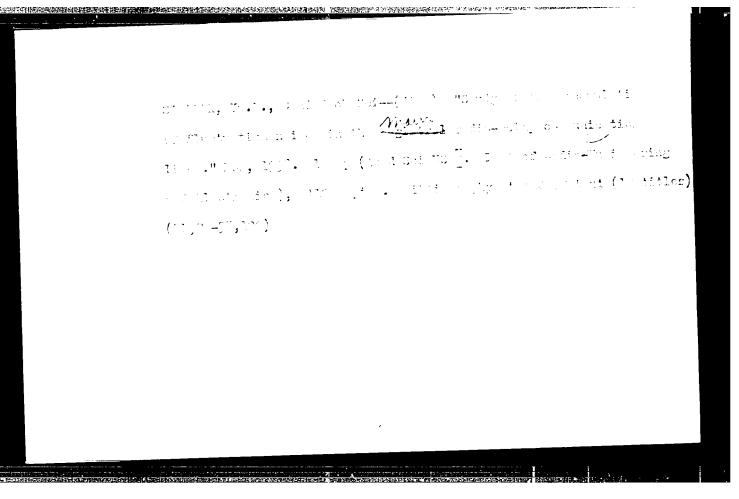
ASSOCIATION: Institute of Radioengineering and Electronics AN USSR (Institut

radiotekhniki i elektroniki Akademii nauk SSSR)

SUBMITTED: June 21, 1957

AVAILABLE: Library of Congress

Card 2/2



SINDLER, Yu.B.

等的表面<mark>是有效的可以因素的多数的对数。因此是对性的是类似的</mark>更加的对象的。例如,但是是不是有的的。

Institut radiotekhniki i elektroniki AN SSSR.
 (Radio relay systems--Noise) (Blectronic digital computers)

5/044/60/000/010/019/021 C111/C333

6,9400

AUTHOR: TITLES

Approximate calculation and modelling of the noise accumulation in radio communication lines with relay

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 10, 1960, 142, abstract 11952. (Sb.tr.Nauchno-tekhn. o-vo radiotekhn. i elektrosvyazi im. A.S.Popova, 1958, vyp. 2, 227-255)

For sufficiently large values of the argument x the author gives estimations of the distribution laws $F_n(x)$ of the sums of a large number n of independent random variables as well as of random variables which form a simple homogeneous Markov chain. E.g., if the summands are independent, equally distributed, and if their distribution is attracted by a stable distribution with parameter &, then it holds for large for $\alpha < 1$

$$\mathbf{x}\text{-values}; \qquad \begin{cases} 1-(nc/\mathbf{x}^{d}) & \text{for } \mathbf{x}^{d} \leq 1 \\ 1-(nc/(\mathbf{x}\text{-cn ln n})) & \text{for } \mathbf{x}^{d} \leq 1 \end{cases}$$

$$\mathbf{for } \mathbf{x}^{d} \leq 1$$

$$\mathbf{for } \mathbf{x}^{d} \leq 1$$

$$\mathbf{for } \mathbf{x}^{d} \leq 2$$

card 1/2

Approximate calculation and ...

2259L S/044/60/000/010/019/021 C111/C333

(a is the mathematical expectation of the single summands, c--parameter). The results are applied in order to estimate the distribution law of the noise intensity in a telephone channel in the output of a radio communication line with relay. The author proposes a method for the modelling of the considered problem on digital computers.

Abstracter's notes Complete translation.

Card 2/2

109-3-2-22/26 Sindler, Yu.B. AUTHOR:

The Problem of Noise Storage in Radio Relay Links TITLE:

(K voprosu o nakoplenii shuma v redioreleynykh liniyakh

svyazi)

Radiotekhnika i Elektronika, 1958, Vol.III, No.2, pp. 291 - 292 (USSR). PERIODICAL:

A formula for the noise distribution function $F_n(z)$ ABSTRACT: a telephone channel situated at the n-th section of a radio-relay link is given. The symbols in the formula are as follows: a_k is the average noise power, $a_k = a_k$ provided $\alpha_k \geqslant 2$, $a_k' = (1 - n^{1/\alpha}/n)a_k$ if $1 < \alpha_k < 2$, $a_k' = 0$ when

 $\alpha_k < 1$.

There is 1 Russian reference.

SUBMITTED: November 4, 1957

AVAILABLE: Library of Congress

1. Noise-Distribution-Analysis card 1/1

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32471 5/044/61/000/010/037/051 C111/C222

AUTHORS:

Fleyshman, B.S., Linkovskiy, G.B., and Sindler, Yu.B.

TITLE:

On the question of the optimal statical estimation of the characteristics of a communication channel with a multi-ray

propagation

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1961, 29, abstract 10 V 178. ("Sb. tr. Nauchno-tekhn. o-vo radiotekhn. i elektrosvyazi im. A.S. Popova", 1959, vyp 3, 34-42)

TEXT: The authors consider the same situation as in the preceding paper of the authors (abstract 10 V 176); the notations of this abstract are used but another problem is given. The actual value of & is assumed to be known. An estimation for the dispersion of the "multiplicative" component of the noise $\alpha_i(t)$ is sought. Under the same assumptions as in

the mentioned paper the authors use the method of the maximal credibility and the momentum method for the determination of the estimation of dispersion. The case where not all processes $\ll_{i}(t)$ are equally

Card 1/2

321.71 S/044/61/000/010/037/05! On the question of the optimal statical ...C111/C222

distributed and there exists a process $\mathcal{A}_1(t)$ the dispersion of which is greater than for all other $\mathcal{A}_1(t)$ is considered separatedly. Some examples are considered. The remarks on the unclearness of the formulations made in abstract 10 V 176 (as well as the remark of the reviewer with respect to this abstract) hold also for the present paper. [Abstracter's note: Complete translation.]

Card 2/2

3/058/61/000-006/051/063 A001/A101

9,1400

AUTHOR-

Sindler, Y. B

TITLE:

An investigation of properties of probability distribution laws for

fading and noises in radio retransmission lines

THE SECOND PROPERTY OF THE PRO

PERMISDICAL

Referativnyy zhurnal Fizika, no. 6, 1961, 359, abstract 6Zh289 "St. tr. Nauchnoutekhn hovo radiotekhn i elektrosyvani im A.S.

Foreva", 1959, no. 3, 117 - 139)

TEXT On the basis of the theory of stable laws of probability distribution, the author establishes asymptotic properties of probability distribution laws for noises in telephone channels of radio retransmission lines; he made use of various literature sources and generalized them.

[Abstracter's note | Complete translation]

B

Card 1/1

是自己的证据,这种的证据,我们的证据,我们就是一个人的,我们就是一个人的证明,我们就是一个人的证明,我们可以不是一个人的证明,我们可以不是一个人的证明,但是一个

34040 s/109/62/001/001/019/027 D246/D301

6.9400

Sindler, Yu.B.

TITLE:

AUTHOR:

Applying the theory of dynamical programming to the problem of recording the level of weak signals with the aid of inertial dynamical systems in the presence

of noise

PERIODICAL:

Radiotekhnika i elektronika, v. 7, no. 1, 1962,

161 - 164

The purpose of the paper is to find the optimum parameters for building a converter which is based on discrete action; but it can be extended for continuous operation. The original weak signal u(t) is made to pass through a noisy amplifier, where it becomes K u(t) is made to pass through a noisy amplifier, where it becomes K u(t) + n(t) (n(t) representing noise). In the recording device a signal y(t) (which is not coincident with u(t)) is periodically resignal y(t) corded. A converter has to be inserted between amplifier and register so that to work out a signal $\lambda(t)$ which ensures that the next moment y(t) coincides better with K u(t) = S(t). The author tries

Card 1/3

340h0 s/109/62/007/001/019/027 D246/D301

Applying the theory of dynamical ...

to find the optimum functional $\lambda(t) = \lambda[s(\tau) + n(\tau)]$ where $t > \tau > -\infty$. The problem can be quantized, by dividing the time interval into N parts. Then the author assumes that S(t) is a normal Markov process. The output signal at the moment of recording can be represented by

$$y_0 = \sum_{i=0}^{\infty} \lambda_i \Phi_i$$
 (2)

This is a problem of a multistage choice. Using the ideas of dynamical programming, the author derives recurrent functional equations. The analysis shows that for small noise the rule for choosing the signal λ at the time $t = -i \cdot \Delta T$ is

the time
$$t = -1$$
: $\Delta 1$ is
$$\lambda_{\text{opt}}(\bar{s}_{\text{oi}} - y_{\text{oi}}) = \begin{cases}
\lambda_{1}^{*}, & \text{if } /\lambda_{1}^{*} / < \lambda_{M}, \\
-\lambda_{M}, & \text{if } \lambda_{1}^{*} < -\lambda_{M}, \\
\lambda_{M}, & \text{if } \lambda_{1}^{*} > \lambda_{M}.
\end{cases}$$
(15)

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Applying the theory of dynamical ...

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where $\lambda_i^* = \frac{1}{\Phi_i}$ ($\bar{s}_{oi} - y_{oi}$), λ_M is a constant, such that $/\lambda(t)/\leq \lambda_M$. \bar{s}_{oi} is the conditional average value of the signal s_o for fixed values of $s_j + n_j$; y_{oi} is the value of y, in case when from t = -i. $\angle \Delta T$ to t = 0 the signals given to the output of the register are zero. The analysis shows that at any level of noise the optimum signal is a function of the difference: $\bar{s}_{oi} - y_{oi}$. There are 1 figure, and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: R. Bellman Dynamic programming, Princeton University Press, Princeton, New Jersey. 1957.

SUBMITTED: August 11, 1961

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30hh2

\$/109/61/006/012/017/020 D201/D305

9,9300

AUTHOR:

Sindler, Yu.B.

TITLE:

Storage of noise and fading in distant tropospheric

propagation radio-relay communication system

PERIODICAL:

Radiotekhnika i elektronika, v. b, no. 12, 1961,

2093 - 2094

TEXT: This short communication deals with the asymptotic evaluation of the distribution law of probability of output noise fluctuation when this noise is at a high level and when its fluctuation is due to fading. Fading in tropospheric propagation may be either "slow" or "fast". The following assumptions are made: The system has n sections, the waves are propagated only owing to scattering and at the receiving and there are many primary rays with total power 2 o². Phaseshifts and amplitudes are continuously changing, the power 2 o² varies slowly. For a given of the amplitude of the field intensity obeys the Rayleigh distribution

 $W(E/\mathfrak{s}) = \frac{E}{\mathfrak{s}^2} \exp\left(-\frac{E^2}{2\mathfrak{s}^2}\right). \tag{1}$

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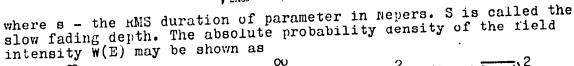
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Storage of noise and fading ...

It is also assumed that o is random and varies slowly and that its one-dimensional probability distribution is logarithmically normal

$$W(z) = \frac{1}{V2\pi z^2} \exp\left[-\frac{(\ln z - \ln z)^2}{2s^2}\right],$$
 (2)



$$W(E) = \int_{0}^{\infty} W(E/\sigma)W(\sigma)d\sigma = \frac{1}{\sqrt{2\pi/8}} \int_{0}^{\infty} \frac{E}{\sigma^{5}} \exp\left[-\frac{E^{2}}{2\sigma^{2}} - \frac{(\ln \sigma - \ln \sigma)^{2}}{2s^{2}}\right]d\sigma.$$

For small values of E

$$\mathbb{W}(\mathbb{E}) \stackrel{\sim}{\sim} \mathbb{E} \exp \left[2(s^2 - \overline{\ln \sigma}) \right] \tag{4}$$

may be obtained and since the fluctuating noise power introduced by one section of the system $y=B/E^2$ (5), where B - a constant, the distribution funtion of noise power at one section of the system for large values for noise may be determined by

Card 2/3

SINDIER, Yu.B.

Concerning the application of the theory of dynamic programming to a problem on the remistration of the level of weak signals using inerproblem on the remistration of the level of weak signals using inertial dynamic systems in the presence of noise. Addiotekt. i elektron. (RIRA 15:1)

7 no.1:161-164 Ja '(2). (Programming (Electronic computers)) (Information theory)

OAAA8=67 EW(ta)

SOURCE CODE: UR/0109/66/011/006/0996/1004 ACC NR: AP6018992

AUTHOR: Sindler, Yu. B.

ORG: none

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TITIE: Two-step procedure of detection without signal level quantization

SOURCE: Radiotekhnika i elektronika, v. 11, no. 6, 1966, 996-1004

TOPIC TAGS: signal detection, signal noise separation

ABSTRACT: This two-step detection procedure is considered: (1) The first test yields a likelihood-ratio logarithm z_1 and requires an energy expenditure c_1 ; the value of z_1 is compared with two thresholds z_1 and z_2 ; if $z_1 < z_2$, the decision is — no signal; if $z_1 > z_t$, the decision is -- the signal is present; if $z_b < z_1 < z_t$, the second test is required; (2) The second test yields z_2 and requires q_2 ; if $z_1 + z_2 > c$, the signal is present; if $z_1 + z_2 < c$, the signal is absent; z is a new threshold. The quantities q_2 and c are regarded as continuous functions of z_1 defined within $z_b \in z_1 \in z_t$. Probability of correct detection, probability of false alarm, and energy expenditure in the second test (signal absent) are determined It is claimed that, with high signal energies (large sampling), the above procedu e is substantially

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UDC: 621.391.16

L 11230-67 EWT(d)/EWT(c)/EWT(k)/EWT(h)/EWT(1)/EWT(v) IJF() GD

SOURCE CODE: UR/0000/66/0 0/000/0013/0019 4/

AUTHOR: Sindler, Yu. B.;

ORG: none

TITLE: Certain features of an optimal two-stage procedure for distinguishing between statistical hypotheses

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dny. radio. 22d, 1966. Schtsiya kibernetiki. Doklady. Moscow, 1966, 13-19

TOPIC TAGS: statistic analysis, data sampling, mathematic analysis, quality control

ABSTRACT: The article deals with the features of an optimal procedure of this kind as exemplified by sampling quality control in industry. Suppose that the substandard quality of a lot of products is determined by some parameter θ . The lot is considered up to the standards if $\theta < \theta_{\rm CR}$, where $\theta_{\rm CR}$ is the critical value of θ . In radio tube production, e.g. θ may be represented by a quantity inversely proportional to the average (for a given lot of tubes) service life. Suppose further that on testing any one specimen selected from this lot we obtain some random variable ξ_1 , and suppose that $p_{\theta}(x_1) = \text{Prob} \{\xi, < x, |\theta\}$ is the distribution function of

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 ξ_1 . For a fixed θ the variables ξ_1 and ξ_2 (i = j) are independent. Quality control results in either one of two decisions: the decision d_0 that $\theta < \theta_{C\Gamma}$ (the lot is considered acceptable) or the decision d_1 that $\theta > \theta_{C\Gamma}$ (the lot is rejected as substandard). The mutual interests of the producer and consumer require the consideration of at least the following three characteristics of quality control procedure: 1. The probability α of the adoption of decision d_1 on condition that θ has an a priori specified value $\theta = \theta_0$, where $\theta_0 < \theta_{C\Gamma}$ (error of the first kind). 2. The probability β of the adoption of decision d_0 on condition that $\theta = \theta_1$, where $\theta_1 > \theta_{C\Gamma}$ (error of the second kind). 3. The mean number $M_0(n)$ of the specimens used (mean sampling volume) from the acceptable batch when $\theta = \theta_0$. As noted, the procedure consists of two stages. Suppose n_1 is the volume of sampling during stage I and $X^I = \{x_1, \dots, x_{nl}\}$ is the vector of random realization of the variables ξ_1, \dots, ξ_{nl} at this stage. In the n_1 -variate space E_{n_1} of vector X^I three disjoint regions Γ_1 , Γ_1 , Γ_2 are isolated in such a way that Γ_1 , Γ_2 , Γ_3 or the decision Γ_4 when $X^I \in \Gamma_1$. If $X^I \in \Gamma_4$ we proceed to stage II. Then the n_2 -variate space E_{n_2} of the vector X^I is divided into two disjoint regions Γ_2 (X^I) and Γ_2 +(X^I), so that Γ_2 (X^I) + Γ_2 (X^I) = E_{n_2} . The

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following pertinent statements are mathematically substantiated: Statement 1: The likelihood ratio ${}^{l}_{1}$ is a sufficient statistic of the vector X^{I} for selecting n_{2} in the domain $X^{I} \in G_{1}$. Statement 2: The nature of optimal processing of the combined inspection findings for both stages consists in that the overall likelihood ratio ${}^{l}_{1}{}^{l}_{2}$ is determined and compared with the constant threshold (Lagrange multiplier) μ . If ${}^{l}_{1}{}^{l}_{2} > \mu$, the decision ${}^{l}_{1}$ is taken; if ${}^{l}_{1}{}^{l}_{2} < \mu$, the decision ${}^{l}_{0}$ is taken. Statement 3: The likelihood ratio ${}^{l}_{1}$ is a sufficient statistic of the vector X for an optimal decision on whether the vector X^{I} belongs in the domains ${}^{l}_{1}$, ${}^{l}_{1}$ or ${}^{l}_{1}$. It is shown that a formal solution of this problem, derived on disregarding the condition ${}^{l}_{2} \ge 0$, satisfies this condition. It is proved that condition ${}^{l}_{2} \ge 0$ is satisfied in the domain ${}^{l}_{1}$. Orig. art. has: 22 formulas, 1 figure.

SUB CODE: 12 / SUBM DATE: 05Mar66/ ORIG REF: 003

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SINDLERZE I BOOK EXPLOITATION BOV/2779

- Nauchno-tekhnicheskoye obshchestvo mashinostroitel noy promyshlennosti. Leningradskoye oblastnoye pravleniye
- Gidrodinamicheskiye peredachi (Hydrodynamic Transmissions) Moscow, Mashgiz, 1959. 245 p. (Series: Its: Trudy, vyp. 52) 3,000 copies printed.
- Ed,: V.P. Gur'yev, Candidate of Technical Sciences, Docent; Tech. Ed.: L.V. Shchetinina; Managing Ed. for Literature on Machine-Building Technology (Leningrad Division, Mashgiz): Ye.P. Naumov, Engineer.
- PURPOSE: This book is intended for engineering and technical personnel in the field of hydraulic transmission. It may also be used as a textbook for students of higher technical schools.
- COVERAGE: The book is a collection of 20 papers read at the first conference on hydrodynamic transmissions held in Leningrad from 9-11 December, 1957, at which problems of calculation, design, production and operation of hydraulic clutches and hydraulic converters widely used in industry were discussed.

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